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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/334,510	06/21/1999	KOICHI ABE	1232-4544	5401

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EXAMINER
EBRAHIMI DEHKORDY, SAEID

ART UNIT	PAPER NUMBER
2622	

DATE MAILED: 11/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/334,510	Applicant(s) ABE, KOICHI	
	Examiner Saeid Ebrahimi-dehKordy	Art Unit 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____ .

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-23 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-23 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _____ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____ .

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .
4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Oida et al (U.S. Patent 5,987,186).

Regarding claim 1 and 5 Oida et al disclose: A scanning system comprising: a print device with a scanner function (please note Fig.2 item 219 (printer/scanner unit, column 3 lines 58-65 where Oida et al teach the combination of the computer200 and printer/ scanner 219) which allows printing and scanning by selectively mounting a print head and scan head on a head mounting port (please note Fig.2 column 4 lines 33-37

where Oida et al teach the mounting of both print head and scan head selectively) and an external computer which is connected to said print device to be able to communicate therewith (please note Fig.2 column 4 lines 33-34 where the computer is connected to the printer/scanner device) and comprises a scanner software for controlling scanning of said print device (please note column 4 lines 38-42 where the printer and scanner are communicating with the host device through the I/Q ports to exchange status data and print/scan data) wherein when said scan head is mounted on said head mounting portion and a predetermined preparation is detected (please note Fig.2 column 4 lines 34-36 where the scan head is mounted) said print device communicates with said external computer to start said scanner software (please note Fig.2 column 4 lines 38-43 where Oida et al teach the connection of the printer/scanner through the I/Q ports with the host computer).

Regarding claims 2,6 and 12 Oida et al disclose: The system according to claim 1, wherein said print device is designed to send a scanner start signal to said external computer when said scan head is mounted on said head mounting portion (please note Fig.8 column 6 lines 8-16 where the signal to and from the scan head was sent to the host) said scanner software comprises a detection module for detecting the scanner start signal said detection module alone in said scanner software is running in a standby state in which said printer device has not been started as a scanner (please note column 4 lines 33 to 38 where the scanner or printer is mounted selectively as computer performs printing or scanning respectively) and modules other than said detection module in said scanner software are started when said detection module detects the

scanner start signal (please note Fig.2 lines 39-42 where printer/scanner is connected to the computer through a parallel interface therefore communicating bi-directionally).

Regarding claims 3,7 and 13 Oida et al disclose: The system according to claim 2, wherein when all the modules in said scanner software are running, said detection module uses a sufficiently small work area of said external computer compared to other modules (please note column 5 lines 57-61).

Regarding claims 4,8 and 14 the system according to claim 1, wherein said print head is an ink-jet print head (please note Fig.2 column 3 lines 60-62).

Regarding claims 9 and 15 Oida et al disclose: The system according to claim 5, further comprising prescan selection means for selecting whether or not a prescan is made upon scanning the original (please note Fig.2 column 4 lines 1-14) and wherein when said scanner software is started and it is selected by said prescan selection means that the prescan is to be made, an image of the original is prescanned and read into said scanner software (please note column 5 lines 46-67).

Regarding claims 10 and 16 Oida et al disclose: The system according to claim 9, wherein said scanner software displays the prescanned and read image (please note column 4 lines 8-10 where the image is displayed before scanning).

Regarding claim 11 A scanning system comprising: a print device with a scanner function (please note Fig.2 item 219 (printer/scanner unit, column 3 lines 58-65 where Oida et al teach the combination of the computer200 and printer/ scanner 219) which allows printing and scanning by selectively mounting a print head and scan head on a head mounting portion (please note Fig.2 column 4 lines 33-37 where Oida et al teach

the mounting of both print head and scan head selectively) and an external computer which is connected to said print device to be able to communicate therewith (please note Fig.2 column 4 lines 33-34 where the computer is connected to the printer/scanner device) and comprises a scanner software which can control scanning of said print device (please note column 4 lines 38-42 where the printer and scanner are communicating with the host device through the I/Q ports to exchange status data and print/scan data) and an application software which can edit an image scanned from said print device (please note column 4 lines 1-1-14) wherein when said scan head is mounted on said head mounting portion and an original is set on said print device and said application software is running, said print device communicates with said external computer to start said scanner software to read an image of the original into said scanner software, and to transfer the read image to said application software (please note column 4 lines 33-43).

Regarding claim 17 Oida et al disclose: The system according to claim 11, wherein said scanner software comprises application software run detection means for detecting whether or not said application software is running (please note column 4 lines 27-33).

Regarding claim 18 Oida et al disclose: A method of controlling a scanning system, which comprises a print device with a scanner function, which allows printing and scanning by selectively mounting a print head and scan head on a head mounting portion, and an external computer which is connected to said print device to be able to communicate therewith, and comprises a scanner software which can control scanning

of said print device, comprising the step of: controlling said print device to communicate with said external computer so as to start said scanner software (please note Fig.4 column 5 lines 6-16 where controller 401 is communicating bi-directionally with the host system and the program inside the host) when said scan head is mounted on said head mounting portion and a predetermined preparation is detected (please note Fig.2 column 4 lines 33-42 where the scan head is mounted).

Regarding claim 19 Oida et al disclose: A method of controlling a scanning system, which comprises a print device with a scanner function, which allows printing and scanning by selectively mounting a print head and scan head on a head mounting portion, and an external computer which is connected to said print device to be able to communicate therewith, and comprises a scanner software which can control scanning of said print device, comprising the step of: Controlling said print device to communicate with said external computer so as to start said scanner software and to read an image of the original into said scanner software (please note Fig.4 column 5 lines 6-16 where controller 401 is communicating bi-directionally with the host system and the program inside the host also note column 6 lines 46-60 where the original document is read to the scanner) when said scan head is mounted on said head mounting portion and an original is set on said print device (please note Fig.2 column 4 lines 33-42 where the scan head is mounted).

Regarding claim 20 Oida et al disclose: A method of controlling a scanning system, which comprises a print device with a scanner function, which allows printing and scanning by selectively mounting a print head and scan head on a head mounting

portion, and an external computer which is connected to said print device to be able to communicate therewith, and comprises a scanner software which can control scanning of said print device, and an application software which can edit an image scanned from said print device, comprising the step of: Controlling said print device to communicate with said external computer so as to start said scanner software (please note Fig.4 column 5 lines 4-16 where the controller 401communicating b-directionally with the host computer to start any software) to read an image of the original into said Scanner software (please note Fig.9 column 6 lines 47-57) and to transfer the read image to said application when said scan head is mounted on said head mounting portion and an original is prepared On said print device and said application software is running (please note Fig.2 column 4 lines 33-42 where the scan head is mounted selectively).

Regarding claim 21Oida et al disclose: A storage medium that stores a control program for controlling a scanning system (please note Fig.1 column 3 lines 66-67 and column 4 lines 1-3) which comprises a print device with a scanner function (please note Fig.2 item 219 where printer/scanner is connected to the computer, column 3 lines 57-65) which allows printing and scanning by selectively mounting a print head and scan head on a head mounting portion (please note Fig.2 column 3 lines 60-65) and an external computer which is connected to said print device to be able to communicate therewith (please note Fig.1 column 3 lines 57-65) and comprises a scanner software which can control scanning of said print device (please note Fig.4 item 402 column 5 lines 4-8 where the program is stored in the printer/scanner) said control program comprising: a code of the step of controlling said print device to communicate with said

external computer so as to start said scanner software (please note Fig.4 item 401 column 5 lines 4-16 where this controller is in communication with the host in bi-directionally method) when said scan head is mounted on said head mounting portion (please note Fig.2 column 4 lines 33-38).

Regarding claim 22 Oida et al disclose: A storage medium that stores a control program for controlling a scanning system, which comprises a print device with a scanner function, which allows printing and scanning by selectively mounting a print head and scan head on a head mounting portion, and an external computer which is connected to said print device to be able to communicate therewith, and comprises a scanner software which can control scanning of said print device said control program comprising: a code of the step of controlling said print Device to communicate with said external computer so as to start said scanner software (please note Fig.4 item 401 column 5 lines 4-16 where this controller is in communication with the host in bi-directionally method) and to read an image of the original into said scanner software (please note Fig.9 column 6 lines 47-56) when said scan head is mounted on said head mounting portion and an original is set on said print device (please note column 4 lines 33-38).

Regarding claim 23 Oida et al disclose: A storage medium that stores a control program for controlling a scanning system, which comprises a print device with a scanner function, which allows printing and scanning by selectively mounting a print head and scan head on a head mounting portion, and an external computer which is connected to said print device to be able to communicate therewith, and comprises a

scanner software which can control scanning of said print device, and an application software which can edit an image scanned from said print device, said control program comprising: a code of the step of controlling said print device to communicate with said external computer so as to start said scanner software to read an image of the original into said scanner software (please note Fig.4 item 401 column 5 lines 4-16 where this controller is in communication with the host in bi-directionally method also please note Fig.9 column 6 lines 47-56) and to transfer the read image to said application software when said scan head is mounted on said head mounting portion and an is set on said print device and said application software is running (please note column 4 lines 33-42 where the scan head is mounted selectively).

Other prior art cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Oida et al (U.S. patent 5,987,186) is pertinent as disclosing an image processing, apparatus and system having detachably mounted read cartridge.

Katayama et al (U.S. patent 5,842,793) is pertinent as disclosing a printing device.

Lee (U.S. patent 6,155,665) is pertinent as disclosing a position compensating technique used during two-way printing and scanning.

Yoshida (U.S. Patent 6,334,665) is pertinent as disclosing a printing system and method of printing.

Lee (U.S. patent 6,236,471) is pertinent as disclosing a vertical alignment correction apparatus and method.

Contact Information

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Saeid Ebrahimi-Dehkordy* whose telephone number is (703) 306-3487.

The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles, can be reached at (703) 305-4712.

Any response to this action should be mailed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

Or faxed to:

(703) 872-9314, or (703) 308-9052 (for ***formal*** communications; please mark
"EXPEDITED PROCEDURE")

Or:

(703) 306-5406 (for ***informal*** or ***draft*** communications, please label "PROPOSED" or "DRAFT")

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA. Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 305-4750.

Saeid Ebrahimi-Dehkordy
Patent Examiner
Group Art Unit 2622
November 15, 2002

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